Medical Panel PC

Point-of care medical panel PC supports high performance Intel® Core i series and Celeron® processor with Intel® HM55 chipset. IEI provides big screen size 17"/19" for medical using, optimizing the applications as an information processing terminal. The user-friendly touchscreen gives user easier way to process data input, making POC a perfect information terminal. IEI's medical touch panel PCs are the best choice for the users to get better CPU efficiency and have a complete peripherals to strengthen the model function.

Certified Medical All-in-one Panel PC

EN60601-1 & IEC 60601-1

FCC Class B, CE (EN60601-1-2), UL60601-1

UL60601-1 FCC Class B CE (EN 60601-1-2)

POC-W22A Series New

- **4th generation Intel® Core™ i5/i3 or Celeron® CPU**
- **Intel® H81 Solution**

- 22" slimmest body with projected capacitive with multi-touch
- IP65 compliant front bezel
- Optional Internal Battery
- Optional VoIP phone handset

POC- i Series

- **Mobile Intel® Core™ i7/ i5/ i3 or Celeron® processor**
- **Intel® HM55 Solution**

The POC-i series adopts high performance dual-core Intel® HM55 chipset to provide high CPU efficiency suitable for medical computing.

- 17" or 19" LCD size
- System memory supports DDR3 SDRAM SO-DIMM up to 8 GB
- Second display via HDMI interface
- 802.11a/b/g/n high speed wireless

IBS-19A Series

- **Intel® Core™ i5/i3 or Pentium® processor**
- **Flat-bezel with LED light visual management**

IBS-19A series provides high performance Intel® H61 chipset with multi-function to fit the necessary of medical environment.

- 19" LCD size
- Built-in SCR for ID and Billing applications
- LED dash light
- Built-in nursing call and reading light

1 IEI Mobile Solutions
2 Automation Panel Solutions
3 PACSmate Medical Solutions
4 Optional Peripherals

Medical Panel PC Selection Guide

New

Model		POC-W22	POC-17i	POC-19i	IBS-19A
LCD Touch Specification	LCD Size (inch)	22”	17”	19”	19”
	Max. Resolution	1920 (W) x 1080 (H)	1280 (W) x 1024 (H)		
	Brightness (cd/m²)	250	380	350	300
	Contrast Ratio	1000:1	800:1	1000:1	2000:1
	LCD Color	16.7M	16.7M	16.7M	16.7M
	Viewing Angle (H-V)	170°/160°	170°/160°	170°/160°	170°/160°
	Touchscreen	Projected capacitive type with USB interface	5-wire resistive type	5-wire resistive type	5-wire resistive type
System	CPU	4th generation Intel® Core™ i5/i3 or Celeron® CPU	Intel® Core™ i7/i5/i3, Celeron® processor		Intel® Core™ i5/i3, Pentium® processor
	Chipset	Intel® H81	Intel® HM55		Intel® H61
	Memory	2 x DDR3 SO-DIMM (system max. 16 GB)	Two 204-pin 800/1066 MHz DDR3 dual-channel SO-DIMM (system max. 8GB)		Two DDR3 1333MHz SDRAM SO-DIMMs
	I/O Ports	1 x RS-232/422/485 2 x GbE LAN by RJ-45 1 x Line-out 1 x VGA 1 x HDMI 1 x Power jack 6 x USB connector (2 x USB 3.0)	1 x RS-232 by DB-9 2 x GbE LAN by RJ-45 1 x HDMI port 1 x VGA port by DB-15 1 x Power switch	1 x RS-232 or RS-422/485 by DB-9 4 x USB connector 1 x Audio jack (line-out) 1 x Reset button 1 x Power jack	1 x RS-232 2 x GbE LAN by RJ-45 1 x HDMI 2 x USB 2.0 1 x Mic-in 1 x Line-out 1 x AT/ATX switch 1 x Reset button
	Drive Bay	1 x 2.5" SATA HDD Bay	1 x 2.5” SATA HDD		1 x 2.5” SATA HDD 1 x Slim DVD RW 24X
	Audio	2 x 3W speaker	2 x 3W AMP		2 x 3W AMP
	LED Function	2-light battery status LED	One power on/off LED on front panel		Six LED on front panel for Power/ HDD/Wi-Fi/Bluetooth/CPU temperature alert
	OSD Function	1 x LCD on/off 1 x Brightness up 1 x Brightness down 1 x Volume up 1 x Volume down 1 x Touch lock button for cleaning Combinations: 1 x Lock/Unlock OSD 1 x Power on/off	Five buttons (LCD on/off, Light +/-, Audio +/-)		Six OSD keys (system on/off , brightness +/- , Volume +/-, programable function key)
Wireless	Wi-Fi	IEEE 802.11 a/b/g/n 3T3R module (WIFI-RT3593-DB-R10)	802.11a/b/g/n		802.11a/b/g/n
Physical	Construction Material	ABS+PC plastic with anti-bacterial material	Anti-bacteria plastic front frame	Anti-bacteria plastic front frame	Anti-bacteria plastic front frame
	Mounting	VESA 100 mm x 100mm	Panel, Wall, Rack, Stand and Arm VESA 100mm x 100mm	Panel, Wall, Stand and Arm VESA 100mm x 100mm	Wall, Stand and Arm VESA 100mm x 100mm
	Net Weight	8.0 kg	6.0 kg	6.2 kg	7.28 kg
	Dimensions (WxHxD) (mm)	540 x 348 x 50	428 x 350 x 76	470 x 383 x 79	466 x 428 x 65
Environment	Operating Temperature (°C)	0°C ~ 40°C			
	IP Level	IP 65 compliant front panel	IP 64 compliant front panel		IP 65 compliant front panel
Power	Power Requirement	9V~30V DC input	DC 12V input		DC 9~28V
Power Adapter		120W power adapter: Input: 100V~240V AC, Output: 19 V DC	Medical Grade. AC 90V~264VAC input to DC 12V output		Medical Grade, AC 90V~264V input to DC 19V output

POC-W22A-H81

Intel® Core™ i5/i3 and Celeron® Processor

New

EZ Stand for option
- Easy cable connection
- Prevent host slide with rubber pad

Features

- W21.5" 16:9 LED panel with FHD (1920 x 1080)
- 4th generation Intel® Core™ i5/i3 or Celeron® CPU
- Projected capacitive with multi-touch
- IP65 compliant front bezel
- Anti-bacteria cover
- Optional 3-in-1 card reader: MSR/IC card/fingerprint
- Optional EM/Mifare RFID module
- Optional internal battery module
- Optional VoIP phone handset
- Optional handle module with barcode scanner

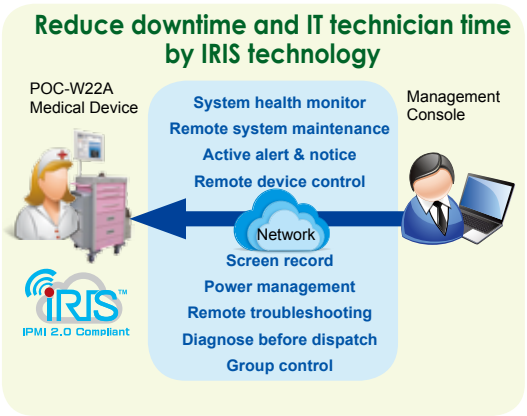
5 YEARS 5-YEAR SUPPLY GUARANTEE | Intel® H81 | RFID EM/Mifare | SCR | Camera | IP65 | Multi-touch | Anti-bacteria

Specifications

Model		POC-W22A-H81
LCD Specifications	LCD Display	W21.5" (16:9)
	Max Resolution	1920 (W) x 1080 (H)
	Brightness (cd/m²)	250
	Contrast Ratio	1000 : 1
	LCD Color	16.7M
	Pixel Pitch (mm)	0.24825 (H) x 0.24825 (V)
	Viewing Angle (H-V)	170°/160°
	Backlight MTBF (hrs)	30000 (LED backlight)
Touch	Touchscreen	Projected capacitive type with USB interface
	Touch Controller	EETI EXC7200
System	CPU Support	Intel® 4th generation Core™ i5/i3 or Celeron® CPU
	Chipset	Intel® H81
	RAM	2 x DDR3 SO-DIMM (system max. 16 GB)
	I/O Port	1 x RS-232/422/485 2 x GbE LAN by RJ-45 1 x Line-out 1 x VGA 1 x HDMI 1 x Power jack 6 x USB connector (2 x USB 3.0)
	Storage	1 x 2.5" SATA HDD bay
	Audio	2 x 3W speaker
	Webcam & Microphone	2-megapixel CMOS front-facing camera with auto-focus and digital microphone
	Expansion Interface	1 x PCIe Mini for Wi-Fi module 1 x PCIe Mini reserved
	LED Indicator	2-light battery status LED
Other Features	EM and Mifare RFID	Optional: EM 125 KHz or Mifare 13.56 MHz card reader
	Function Key	1 x LCD on/off 1 x Brightness up 1 x Brightness down 1 x Volume up 1 x Volume down 1 x Touch lock button for cleaning Combinations: 1 x Lock/Unlock OSD 1 x Power on/off
	Light Sensor	Ambient light sensor for panel brightness adjustment
	Battery	Optional built-in 54W battery pack (30 mins)
	Remote Monitoring	1 x iRIS-2400 slot (iRIS remote management model)
Connectivity	Wireless	IEEE 802.11 a/b/g/n 3T3R module (WIFI-RT3593-DB-R10)
Physical	Construction Material	ABS+PC plastic with anti-bacterial material
	Mounting	VESA 100 x 100
	Dimensions (WxHxD)	540 mm x 348 mm x 50 mm
Environment	Operating Temperature	0°C~40°C
	IP Level	IP65 compliant front panel
Power	Power Input	9V~30V DC input
	Power Adapter	120W medical power adapter: Input: 100V~240V AC, Output: 19 V DC

IEI IRIS Technology Facilitates Remote Management

Point of-Care terminals are typically scattered in many different locations throughout a hospital. IEI Remote Intelligent System (IRIS) is now offering advanced management capabilities based on IPMI 2.0. It provides POC-W22A devices with remote monitoring and management capabilities for critical managed items. It allows staff to manage, monitor, and maintain distributed POC-W22A terminals remotely irrespective of where they are located within the hospital.



Integrated Healthcare Solutions and Clinical Information System

Nursing Cart

Bedside Terminal

Digital Display

Healthcare Experience

Increase working efficiency

Medical staff can get better working experience with bigger and lighter system.

Improve data accuracy

With Internet access and RFID peripherals, tracking data and patient record can be accessed correctly and identification security can also be provided.

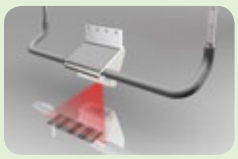
POC-W22A-H81 Main Features

* Stand is an optional item

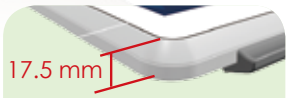
Handset Supported (Optional)
- VoIP phone
- USB interface

Anti-bacterial Included
- Reduce the living bacteria on the surface
- Provide clean environment

Handle Module Supported (Optional)
- Barcode scanner included
- Handle can be disassembled
- Reading Light



Internal Battery Supported (Optional)
- 54W battery
- Support up to 30 min. battery backup
- With LED indicator

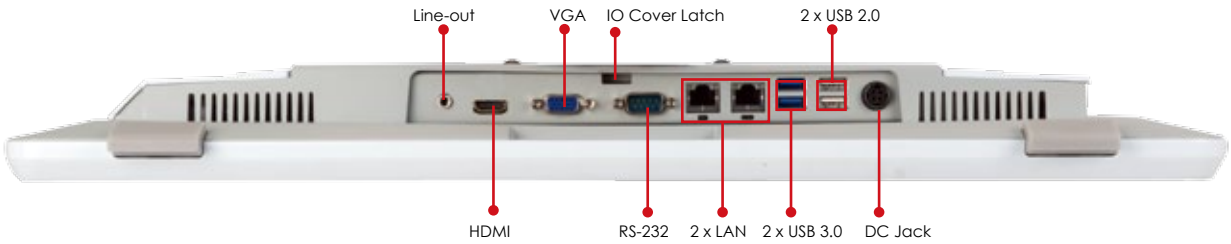


Stylish Design
- Within 17.5 mm
- Flat-bezel

2-megapixel webcam with privacy cover

3-in-1 Combo Reader Supported (Optional)
- Magnetic Stripe Reader (MSR)
- Snart Card Reader (SCR)
- fingerprint sensor

Embedded RFID reader



Rich IO port for external expansion

The new POC-W22A is outfitted with six USB ports for kinds of expansion. As a PPC on medical cart, nurses can type patient information with the connected keyboard and mouse. A smart card reader can also be installed to identify correct ID.

3-in-1 card reader module

2 x USB 2.0 / 2 x USB 3.0

Prevent the sudden shutdown

The new POC-W22A can be installed with a 54 W backup battery which can provide back-up power for up to 30 minutes in power failure. To prevent emergency situation, such as when the power adapter cable is accidentally unplugged, use our battery to provide continuous power in case of system shutdown.

Ordering Information

Part No.	Description
POC-W22A-H81i-P/PC/4G-R10	21.5" 250cd/m² FHD Medical panel PC with Intel H81 chipset, Pentium Dual Core CPU (Above 2.3GHz), TDP 35W, 2*2GB DDR3 RAM, 802.11a/b/g/n wireless module, projected capacitive touchscreen, 2M camera, microphone, support iRIS-2400, R10
POC-W22A-H81i-i3/PC/4G-R10	21.5" 250cd/m² FHD Medical panel PC with Intel H81 chipset, Core i3 Dual Core CPU (Above 2.4GHz), TDP 35W, 2*2GB DDR3 RAM, 802.11a/b/g/n wireless module, projected capacitive touchscreen, 2M camera, microphone, support iRIS-2400, R10
POC-W22A-H81i-i5/PC/4G-R10	21.5" 250cd/m² FHD Medical panel PC with Intel H81 chipset, Core i5 Dual Core CPU (Above 2.4GHz), TDP 35W, 2*2GB DDR3 RAM, 802.11a/b/g/n wireless module, projected capacitive touchscreen, 2M camera, microphone, support iRIS-2400, R10

Options

Item	Part No.	Description
Handset	POCP-W22A-HS-R10	
3-in-1 Card Reader	POCP-W22A-CR-R10	Magnetic card reader/Smart card reader/Fingerprint sensor
Mifare RFID Reader	POC-MF-RFID-KIT01-R10	
iRIS Module	iRIS-2400-R10	IPMI 2.0 adapter card with AST2400 BMC chip for DDR3 SO-DIMM socket interface
EZ Stand	EZSTAND-W22A-R10	

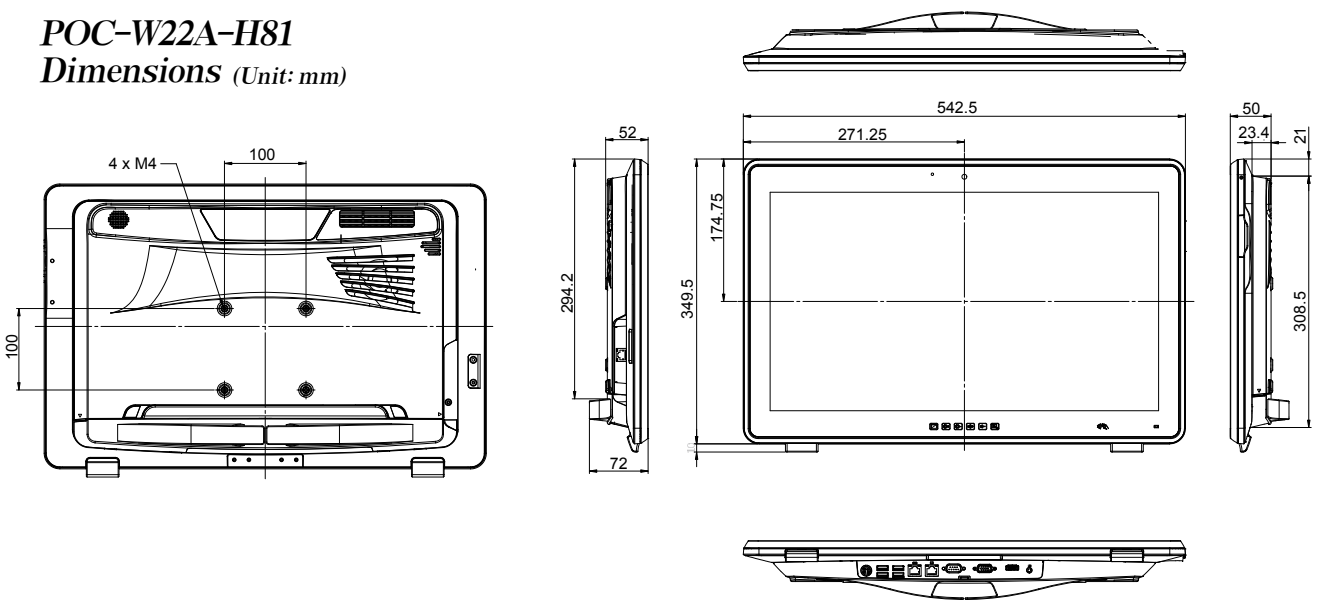
IQ Mounting Options

Item	Part No.
Wall Mount Kit	AFLWK-19B
Arm	ARM-31-RS
Stand	STAND-300SW-RS/STAND-A21-R10

Packing List

Item	Part No.	Q'ty	Description
Utility CD		1	Drivers and User Manual
Power Adapter	63040-010120-010-RS	1	120W medical power adapter: Input: 100V~240V AC, Output: 19 V DC
Power Cord	32702-000200-100-RS	1	European, 1830mm

POC-W22A-H81 Dimensions (Unit: mm)



POC-17i-HM55

17” Medical Panel PC features Intel® Core™ i7/i5/i3 mobile processor with Intel® HM55 chipset

POC-19i-HM55

19” Medical Panel PC features Intel® Core™ i7/i5/i3 mobile processor with Intel® HM55 chipset

Features

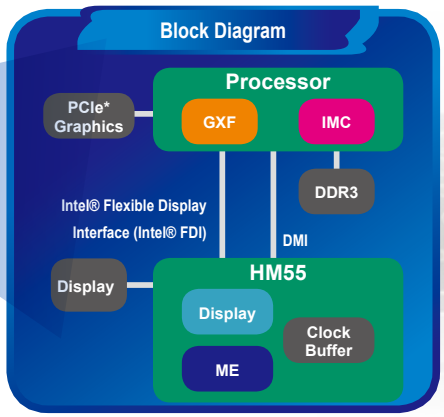
- 17”~19” multi-functional panel PC with touchscreen
- Powered by high-performance Intel® mobile Core™ i7/ i5/ i3 and Celeron® processor with Intel® HM55 chipset
- System memory supports DDR3 SDRAM SO-DIMM up to 8 GB
- HDMI interface provides second display with vivid image quality
- 802.11a/b/g/n high speed wireless
- Dual gigabit Ethernet

Specifications

Model		POC-17i	POC-19i
LCD Touch Specification	LCD Size (inch)	17”	19”
	Max. Resolution	1280 (W) x 1024 (H)	
	Brightness (cd/m²)	380	350
	Contrast Ratio	800:1	1000:1
	LCD Color	16.7M	
	Viewing Angle (H-V)	170°/160°	
	Touch Screen	5-wire resistive type	
System	CPU	Socket G (PGA989A) Intel® Core™ i7-620M 2.66G / Core™ i5-520M 2.4G / Core™ i3-350M 2.26G / Celeron® P4500 1.86G	
	Chipset	Intel® HM55	
	Memory	Two 204-pin 800/1066 MHz DDR3 dual-channel SO-DIMM (system max. 8GB)	
	I/O Ports	1 x RS-232 by DB-9 2 x GbE LAN by RJ-45 1 x HDMI port 1 x VGA port by DB-15 1 x Power switch	1 x RS-232 or RS-422/485 by DB-9 4 x USB connector 1 x Audio jack (line-out) 1 x Reset button 1 x Power jack
	Drive Bay	1 x 2.5” SATA HDD bay for SATA storage devices	
	Audio	AMP 3W + 3W (internal speaker)	
	LED Function	One power on/off LED on front panel	
	OSD Function	Five buttons(LCD on/off, Light +/-, Audio +/-)	
Wireless	Wi-Fi	802.11a/b/g/n	
Physical	Construction Material	Anti-bacteria plastic front frame	
	Mounting	Panel, Wall, Rack, Stand and Arm VESA 100 mm x 100 mm	Panel, Wall, Stand and Arm VESA 100 mm x 100 mm
	Net Weight	6.0 kg	6.2 kg
	Dimensions (WxHxD) (mm)	428 x 350 x 76	470 x 383 x 79
Environment	Operating Temperature (°C)	0°C~40°C	
	IP Level	IP 64 compliant front panel	
Power	Power Requirement	DC 12V input	
Power Adapter		Medical Grade. AC 90V~264VAC input to DC 12V output	

The Best Performance Grade with Intel® Mobile Core™ i7/ i5/ i3

Dual Channel DDR3
Support up to 8 GB



802.11a/b/g/n Ready with Invisible Antenna

The POC-17i/19i series has two GbE LAN connectors and wireless 802.11a/b/g/n network connection, enabling better connection quality through accurate network selection. The powerful 802.11a/b/g/n wireless connection increases redundancy and ensures reliable network for real-time medical record processing.

27 times faster than 802.11b, no cables or installation fees

	802.11a	802.11b	802.11g	802.11n
Data Rate (Mbps)	54	11	54	54
Range (Radius Indoor)	35 Meters	38 Meters	38 Meters	250 Meters
Range (Radius Outdoor)	120 Meters	140 Meters	140 Meters	250 Meters
Radio Frequency	5.15 GHz to 5.85 GHz	2.4 GHz to 2.5 GHz	2.4 GHz to 2.5 GHz	2.4 GHz or 5.0 GHz

Ordering Information

Part No.		Description
17"	POC-17i-i7/2G/320G-R10	17" Medical Panel PC, with Core i7-620M 2.66GHz, 2 GB DDR3 RAM, 320 GB HDD, wireless 802.11a/b/g/n, touchscreen, power adapter, RoHS
	POC-17i-i5/2G/320G-R10	17" Medical Panel PC, with Core i5-520M 2.4GHz, 2 GB DDR3 RAM, 320 GB HDD, wireless 802.11a/b/g/n, touchscreen, power adapter, RoHS
	POC-17i-i3/2G/320G-R10	17" Medical Panel PC, with Core i3-350M 2.26GHz, 2 GB DDR3 RAM, 320 GB HDD, wireless 802.11a/b/g/n, touchscreen, power adapter, RoHS
	POC-17i-P45/2G/320G-R10	17" Medical Panel PC, with Celeron P4500 1.86GHz, 2 GB DDR3 RAM, 320 GB HDD, wireless 802.11a/b/g/n, touchscreen, power adapter, RoHS
19"	POC-19i-i7/2G/320G-R10	19" Medical Panel PC, with Core i7-620M 2.66GHz, 2 GB DDR3 RAM, 320 GB HDD, wireless 802.11a/b/g/n, touchscreen, power adapter, RoHS
	POC-19i-i5/2G/320G-R10	19" Medical Panel PC, with Core i5-520M 2.4GHz, 2 GB DDR3 RAM, 320 GB HDD, wireless 802.11a/b/g/n, touchscreen, power adapter, RoHS
	POC-19i-i3/2G/320G-R10	19" Medical Panel PC, with Core i3-350M 2.26GHz, 2 GB DDR3 RAM, 320 GB HDD, wireless 802.11a/b/g/n, touchscreen, power adapter, RoHS
	POC-19i-P45/2G/320G-R10	19" Medical Panel PC, with Celeron P4500 1.86GHz, 2 GB DDR3 RAM, 320 GB HDD, wireless 802.11a/b/g/n, touchscreen, power adapter, RoHS

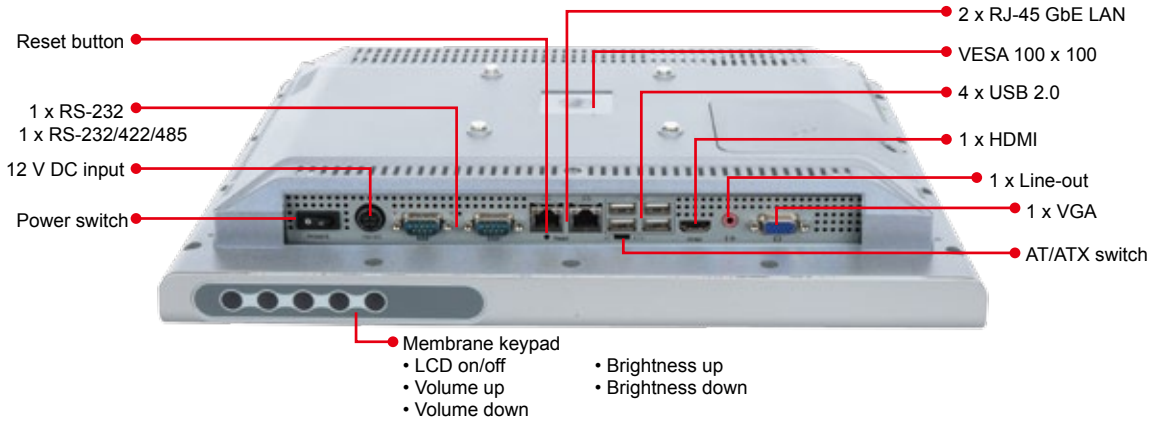
Packing List

Item	Part No.	Q'ty	Description
Utility CD	7B000-000773-RS	1	Drivers and User Manual
Power Adapter	63040-010096-030-RS	1	PMP120-12-S; 90~264VAC Input ; 96W; 12VDC output
Power Cord	32000-000002-RS	1	European, 1830mm
Pen	43125-0002C0-00-RS	1	For Resistive Touch

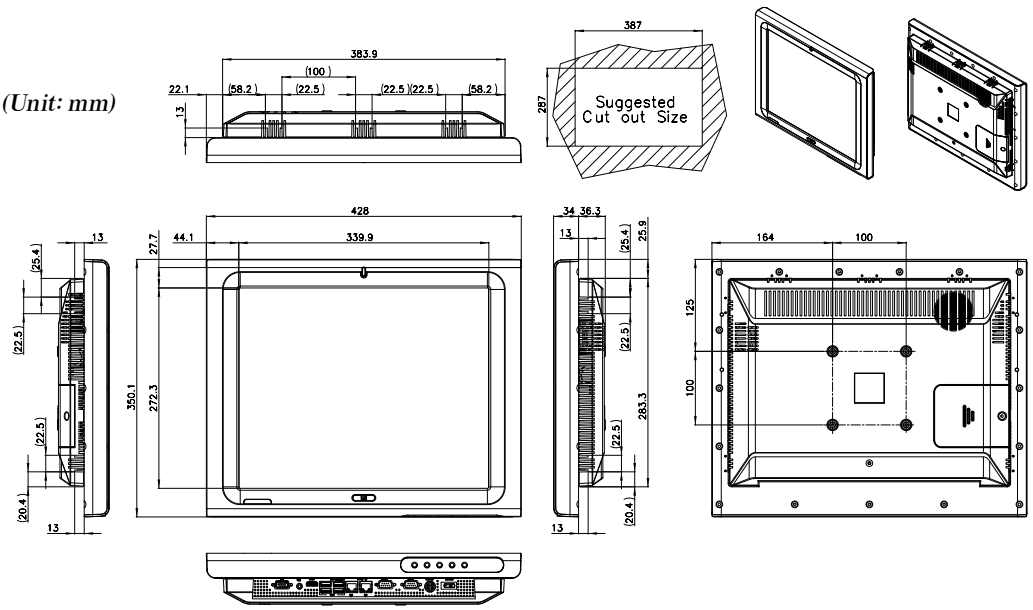
IQ Mounting Options

Item	Part No.
Wall Mount Kit	AFLWK-19B
Arm	ARM-11-RS, ARM-31-RS
Stand	STAND-A19, STAND-A21-R10

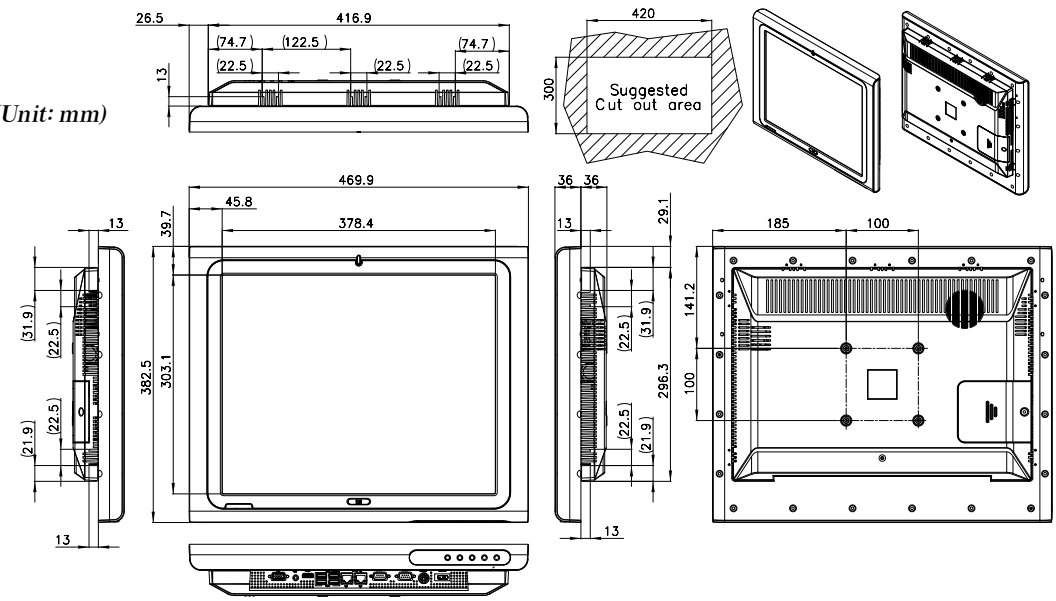
I/O Interface



POC-17i Dimensions (Unit: mm)



POC-19i Dimensions (Unit: mm)



IBS-19A Series

17” Medical Panel PC features Intel® Core™ i5/i3 Processor

Features

- Best price and high-performance Intel® Core™ i5/i3 processor
- Easy cleaning and maintenance in Medical environment
- Feature-rich bedside applications for patients
- Professional point-of-care features for clinician
- Innovative LED dash light system for efficient visual management
- Easy installation with flexible mounting and cabling

Wi-Fi | Touchscreen | Camera | Microphone | EM/Mifare | SCR | Intelligent Systems Alliance

Specifications

Model		IBS-19A	
CPU		Intel® Core™ i5 - 2390T 2.7GHz	
		Intel® Core™ i3 - 21xxT above 2.5GHz	
		Intel® Pentium® - G6xxT above 2.2GHz	
Chipset		Intel® H61 Express Chipset	
RAM Slot		Two DDR3 1333MHz SDRAM SO-DIMMs	
		System max. 4GB	
Display	LCD Size	19"	
	Resolution	1280 x 1024	
	Brightness (nits)	300	
	Backlight	LED	
	Contrast Ratio	2000	
	Viewing Angle	89/89/89/89	
	Operation Lifetime (Hrs)	50000	
	Gamma Table	Grayscale Mode - DICOM GSDF Clear Base 6500K	
		Grayscale Mode - DICOM GSDF Blue Base 9300K	
		Color Mode - Gamma 2.2 6500K	
		Color Mode - DICOM GSDF Clear Base 6500K	
		Color Mode - Gamma 2.2 9300K	
		Color Mode - DICOM GSDF Blue Base 9300K	
Touch Screen		5-wire resistive type	
Wireless	Wi-Fi	802.11a/b/g/n dual-band 2.4Ghz/5Ghz	
Drive Bay	HDD	1 x 2.5" SATA HDD	
	ODD	1 x Slim DVD RW 24x	
I/O Ports	Backward I/O Set	1 x External power switch connector 1 x RS-422/485	1 x USB 2.0 1 x GbE LAN RJ-45
	Downward I/O Set	1 x RS-232 2 x RJ-45 GbE LAN 1 x HDMI 2 x USB 2.0	1 x Mic-in 1 x Line-out 1 x AT/ATX Switch 1 x Reset Button
Audio/Video	Webcam	1280 x 1024 CMOS camera	
	Microphone	Stereo	
	Speakers	2 x 3W	
	Handset	Optional handset with speaker and microhpne	
	Digital TV Tuner	Optional DVB-T by project case	
LED Dash Light	Upper	26 x true color LED	
	Left	20 x true color LED	
	Right	20 x true color LED	
OSD Key		6-key touch sensor pad	
		Programmable Fn key	
RFID		Optional Mifare 13.56Mhz RFID reader	
Smart Card Reader		Optional ISO7816-1,2,3 card reader	
Remote control		Infrared remote control for display OSD	
Power	DC Input	9~28 V DC	
	External Adaptar	130W 90~264 V@AC to 12V@DC	
IP Level	Front Panel	IP 65	
Environmental Condition	Operating Temp.	0°C ~ 40°C	

Bedside Infotainment + Point of Care = Interactive Bedside Station

PACSmate Interactive Beside Station IBS series is designed to improve both patient experiences and clinical efficiency with unique features. The combination of high performance computing capability and the unique LED dash light design offers the hospitals with endless possibilities in bedside entertainment , patient care and clinical management.

Patient Experiences

- VoIP phone
- Video conference
- Internet access
- Movie and music on demand
- Gaming
- DVB-T digital TV
- Nursing call
- Service ordering
- Patient education
- Billing and payment
- Illumination LED reading light
- Infrared remote control

Clinical Efficiency

- Visual notification by the LED dash light
- DICOM GSDF conformance for referral medical imaging
- Smart card and RFID integration
- WLAN and Ethernet connection
- 3.5G HSPDA connection
- Patient education
- Medicine identification by RFID
- Nursing call
- Hospital information system

High Performance Intel® H61 Chipset & 2nd Generation Intel® Core™ i Processor up to 2.7GHz

2nd Generation Intel® Core™ Processors

- Core™ i5 – 2390T 2.7GHz
- Core™ i3 – 21xxT above 2.5GHz
- Pentium® G6xxT above 2.2GHz
- Intel® HD Graphics 2000 Processor Graphic
- Support DDR3 -1333 MHz

Easy Cleaning and Maintenance

Seamless front panel design

The seamless front panel design provides IP 65 rating for easy cleaning.

Anti-bacteria housing

The plastic housing contains anti-bacteria material to reduce the living bacteria on the surface.

Front smart card reader

The front smart card reader with 45 degree insert angle prevents penetration of any liquid drops

Seamless 5-wire resistive touchscreen

The seamless 5-wire resistive is durable for cleaning with alcohol.

ODD cover

The built-in optical drive is equipped with IP 32 cover.

Front USB ports

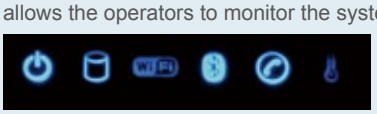
The two front USB ports with 45 degree insert angle prevents penetration of any liquid drops

Touch Function Keys

Touch pad function keys with auto-dimming LED light are all programmable.

System Status Indicators

The easy-reading LED lights indicating various system status allows the operators to monitor the system status anytime.



LED Reading Light

The high-bright ness LED reading light with luminance control button provides illumination in dark area.

Feature-rich Bedside Applications

Front stereo MIC
Built-in high-sensitive stereo microphone for video conferencing

Handset for VOIP
Optional handset for VOIP phone

Smart Card Reader
Built-in SCR for ID and Billing applications

Built-in high-resolution auto-focus video camera

Digital TV
Optional DVB-T digital TV tuner with external antenna connection

Nursing Call
Programmable nursing call button with LED indication light.

Medical Imaging - DICOM Compliant

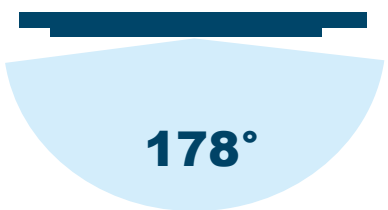
The IBS-19A featuring wide viewing angle LCD with LED backlight is a combination of a profession display and a high-performance PC with DICOM GSDF calibration for grayscale images and with various gamma settings for color images.

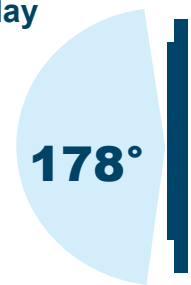
Calibrated DICOM / Gamma

Color Mode
- DICOM GSDF Clear Base 6500K
- DICOM GSDF Blue Base 9300K
- Gamma 2.2 6500K
- Gamma 2.2 9300K

Pure Grayscale Mode
- DICOM GSDF Clear Base 6500K
- DICOM GSDF Blue Base 9300K

Wide-Viewing Angle PMVA LCD Display



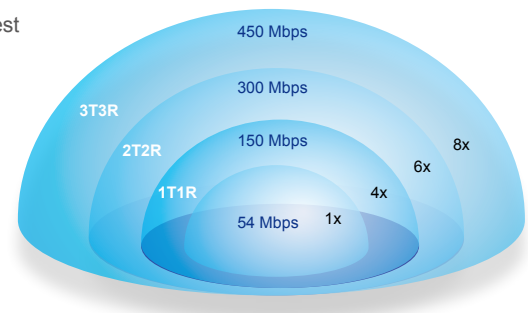


LCD Size	19"
Resolution	1280 x 1024
Brightness	300 nits
Optional High-Brightness	600 nits
Backlight	LED
Contrast Ratio	2000:01:00
Viewing Angle	89/89/89/89
Surface Treatment	Anti-Glare
Operation Life (Hrs)	50000

Wi-Fi 3T3R Wireless LAN

The IBS-19A integrates a 3T3R 802.11/a/b/g/n dual-band WLAN to ensure the highest data transmission rate and most stable wireless connection in hospital environments.

- PCIe interface high speed WLAN
- IEEE 802.11a/b/g/n
- Dual-band 2.4GHz/5GHz
- 3 antenna, 3 transmitters, 3 receivers
- 20MHz / 40 MHz bandwith
- Max. 450 Mbps link rate for 40MHz channel



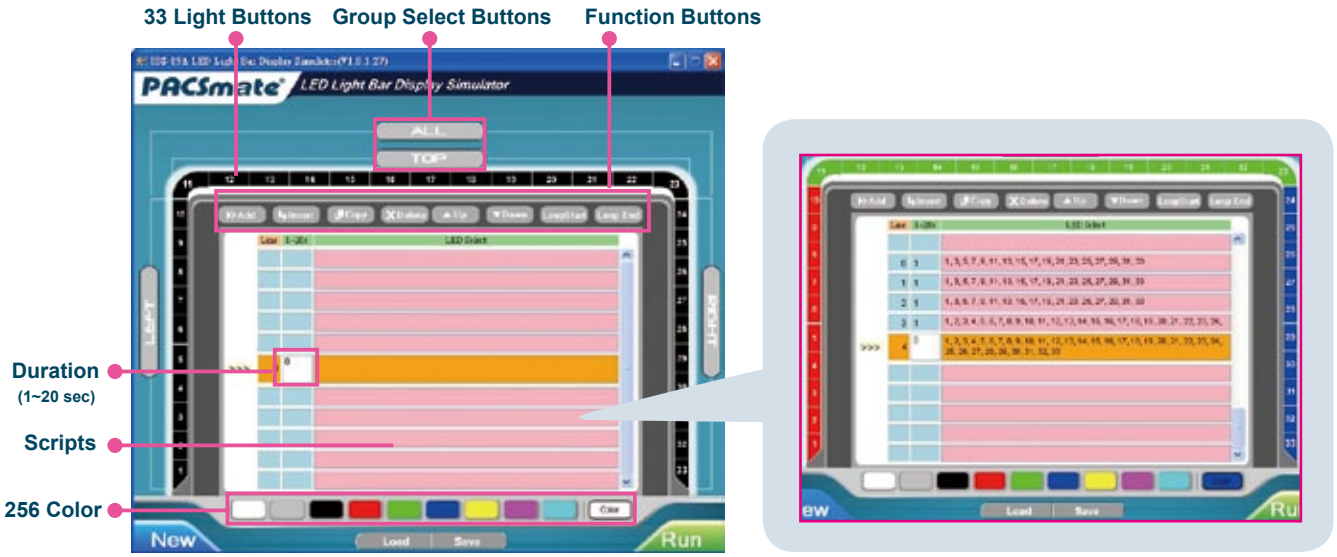
Innovative LED Dash Light System for Patient Room Visual Management

PACSmate IBS-19A series is the industry-first all-in-one medical computer integrated with high-brightness true color LED Dash Light System which provides maximum flexibility and unlimited possibilities for visual notification in patient bedside, patient room facility and nursing stations The exclusive LED Dash Light System consists of three LED light bars with a total of 33 light sections which provides ultimate possibilities for configuration of different visual notifications for all kinds of occasions in the healthcare environment.

The innovative LED Dash Light System can replace the traditional LED dome light for more flexibility as well as saving costs and maintenance efforts.

- High-brightness easy-to-see LED dash lights
- 24-bit true color LED provides a total of 1.67 million colors (256 preset colors)
- 33 light sections, each light section can be configured independently.
- 100% software programmable colors, light duration, flash rates and light patterns
- Provide PACSmate LED Dash Light System simulation software for quick and easy configuration and preview of the light script.
- Provide software API for software vendors with easy integration of all control commands to any specific healthcare application software. Software vendors are free to take the advantage of the PACSmate LED Dash Light System, creating additional values for the healthcare applications.

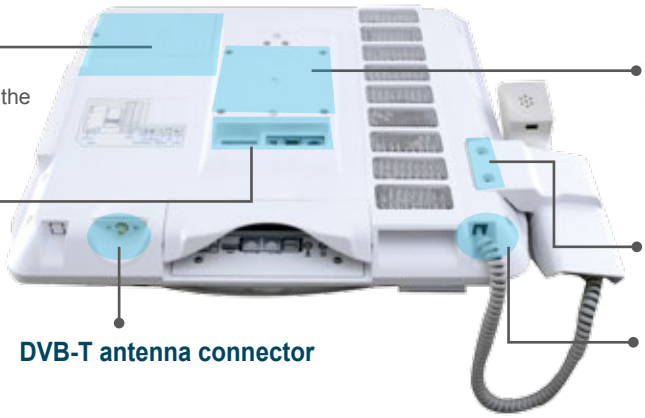
PACSmate LED Dash Light System Simulation Software



Flexible and Easy Installation

HDD quick access
HDD can be accessed from the independent cover without opening the whole system

Hybrid I/O sets
Two sets of I/O connectors facing downward and backward for flexible integration.



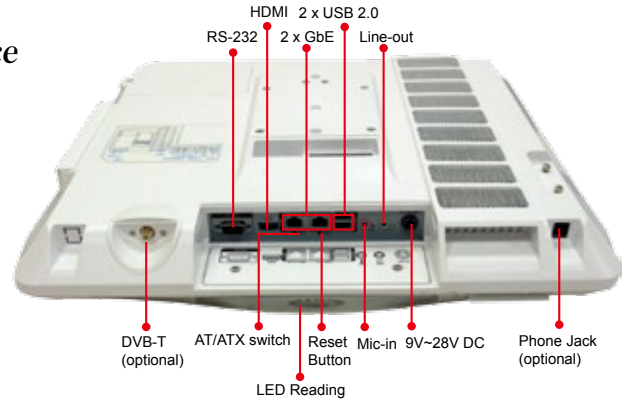
VESA 100 mounting
With the hybrid I/O design, the IBS-19A can be mounted onto a wall, ceiling or desktop stand with the standard VESA 100 interface.

Handset bracket mounting

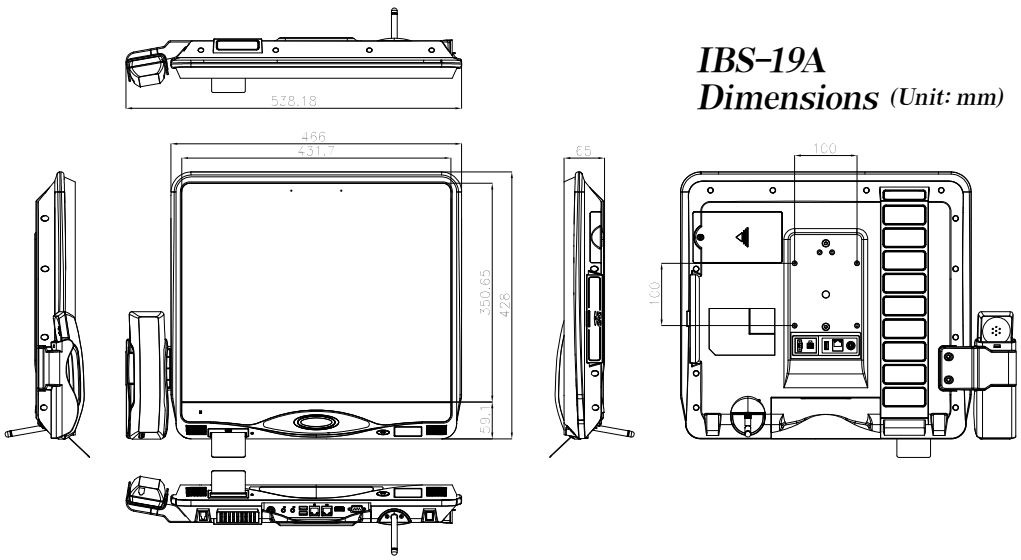
Handset connector (RJ-11)

DVB-T antenna connector

Rich I/O Interface



IBS-19A Dimensions (Unit: mm)



Ordering Information

Part No.	Description
IBS-19A3L-P/2G/32G-R10	19" Medical Panel PC, Intel® H61 platform, with Pentium® G6xxT CPU (2.2GHz above), TDP 35W, 2GB DDR3 RAM, 320GB HDD, Wireless 802.11a/b/g/n, Touchscreen, Slim DVD-RW, AC to DC 19V Power Adapter, R10.
IBS-19A3D-P/2G/32G-R10	19" Medical Panel PC, Intel® H61 platform, with Pentium® G6xxT CPU (2.2GHz above), TDP 35W, 2GB DDR3 RAM, 320GB HDD, Wireless 802.11a/b/g/n, Touchscreen, Slim DVD-RW, AC to DC 19V Power Adapter, DICOM GSDF Calibrated, R10.
IBS-19A3S-P/2G/32G-R10	19" Medical Panel PC, Intel® H61 platform, with Pentium® G6xxT CPU (2.2GHz above), TDP 35W, 2GB DDR3 RAM, 320GB HDD, Wireless 802.11a/b/g/n, Touchscreen, Slim DVD-RW, LED Dash Light, RFID, Smart Card Reader, AC to DC 19V Power Adapter, R10.
IBS-19A3L-i3/2G/32G-R10	19" Medical Panel PC, Intel® H61 platform, Core™ i3 21xxT (2.5Ghz above), TDP 35W, 2GB DDR3 RAM, 320GB HDD, Wireless 802.11a/b/g/n, Touchscreen, Slim DVD-RW, AC to DC 19V Power Adapter, R10.
IBS-19A3D-i3/2G/32G-R10	19" Medical Panel PC, Intel® H61 platform, Core™ i3 21xxT (2.5Ghz above), TDP 35W, 2GB DDR3 RAM, 320GB HDD, Wireless 802.11a/b/g/n, Touchscreen, Slim DVD-RW, AC to DC 19V Power Adapter, DICOM GSDF Calibrated, R10.
IBS-19A3S-i3/2G/32G-R10	19" Medical Panel PC, Intel® H61 platform, Core™ i3 21xxT (2.5Ghz above), TDP 35W, 2GB DDR3 RAM, 320GB HDD, Wireless 802.11a/b/g/n, Touchscreen, Slim DVD-RW, LED Dash Light, RFID, Smart Card Reader, AC to DC 19V Power Adapter, R10.
IBS-19A3L-i5/2G/32G-R10	19" Medical Panel PC, Intel® H61 platform, Core™ i5 2390T 2.7GHz, TDP 35W, 2GB DDR3 RAM, 320GB HDD, Wireless 802.11a/b/g/n, Touchscreen, Slim DVD-RW, AC to DC 19V Power Adapter, R10.
IBS-19A3D-i5/2G/32G-R10	19" Medical Panel PC, Intel® H61 platform, Core™ i5 2390T 2.7GHz, TDP 35W, 2GB DDR3 RAM, 320GB HDD, Wireless 802.11a/b/g/n, Touchscreen, Slim DVD-RW, AC to DC 19V Power Adapter, DICOM GSDF Calibrated, R10.
IBS-19A3S-i5/2G/32G-R10	19" Medical Panel PC, Intel® H61 platform, Core™ i5 2390T 2.7GHz, TDP 35W, 2GB DDR3 RAM, 320GB HDD, Wireless 802.11a/b/g/n, Touchscreen, Slim DVD-RW, LED Dash Light, RFID, Smart Card Reader, AC to DC 19V Power Adapter, R10.

Options

Item	Part No.	Item	Part No.
Handset	IBSOPT-HS-R10	Smart Card Reader	IBSOPT-SCR-R10
Mifare RFID Reader	IBSOPT-RFID-R10	Arm	ARM-31-RS
Wall Mounting Kit	AFLWK-19B	Stand	STAND-300SW-RS/STAND-A19/STAND-A21-R10/STAND-C19

Packing List

Item	Part No.	Q'ty	Description
Utility CD	7B000-000773-RS	1	Drivers and User Manual
Power Adapter	63040-010120-010-RS	1	PMP120-13-2, 90~264VAC Input, 120W, 19VDC output
Power Cord	32702-000200-100-RS	1	European, 1830mm
Pen	43125-0002C0-00-RS	1	For Resistive Touch
Mounting Bracket	41120-0310C0-00-RS	1	Mount Bracket
Infrared Remote Controller	7Z000-SLPCB005-RS	1	

PACSmate Medical Solutions

Celebrate Humanity with Technology

As an ISO-9001 and ISO-13485 certified company, PACSmate Technology Inc. (PACSmate) is devoted to serving the healthcare industry with reliable medical IT and medical device products. With well-experienced R&D, manufacturing, sales, marketing and customer service teams based in Taiwan, PACSmate is dedicated in helping the healthcare industry to continuously improve the service quality to patients with innovations in technology. As a member of the IEI Group, PACSmate is focusing in providing the innovated solutions for healthcare industry, which include the diagnostic monitors for PACS/Radiology applications, full range of medical panel PC for hospital information systems and computing platform of various medical devices, and the complete total solution for medication carts to sever the emerging demands in nursing applications.

Our Advantages

- Continuous Technology Innovation

  The patented GrayBoost® simultaneous 12-bit grayscale and GrayEasy® 30-bit deep color are PACSmate market-leading display technology. The experienced R&D teams aim to keep product innovation for better competitiveness in the market.

- Highest Product Reliability

  All PACSmate medical products are compliant with stringent safety standards for the highest product reliability, including UL60601, EN60601-1, CE (EN60601-1-2) and FCC Class B.

- Diverse Product Selection

  PACSmate's high-performing and cost-effective products include diagnostic monochrome/ color monitors, clinical reviewing monitors and all-in-one medical panel PCs that are widely used as medical recording/ imaging terminals.

- Trusted Quality Manufacturing

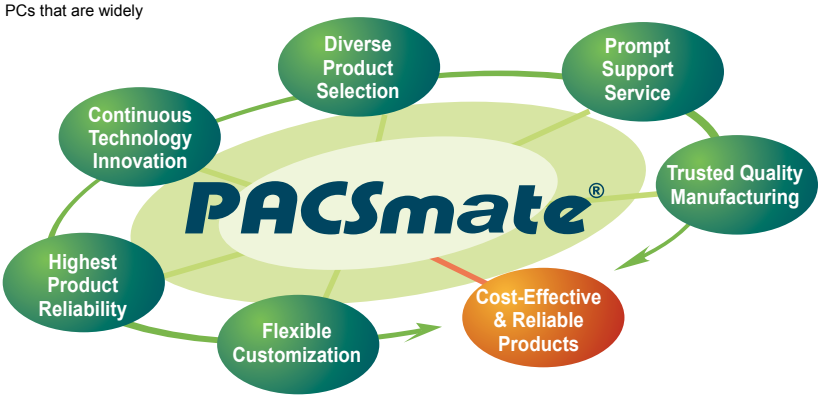
  All PACSmate monitors are manufactured with extreme care from panel selection to final calibration. Every aspect of each panel is carefully inspected, including luminance, viewing angle and chromaticity.

- ODM Serivces

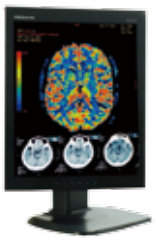
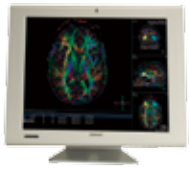
  With intensive knowledge and experiences in medical device products, PACSmate provides time-to-market ODM services to medical device manufacturers for hardware products including medical LCD monitors, laryngoscope systems, patient monitor systems and ultrasound systems.

SYSTEM CERTIFICATION ISO 9001 SGS

SYSTEM CERTIFICATION ISO 13485 SGS



Specifications

Model	MMC-2201M	MMC-2201C	MMC-1170C	MMC-1190C
LCD size(inch)	20.1	20.1"	17"	19"
Resolution	1600 x 1200	1600 x 1200	1280x1024	
Max. Brightness (cd/m²)	700 (typical)	300 (typical)	300 (typical)	
Contrast Ratio	1000 :1 (typical)	800 :1 (typical)	800 : 1 (typical)	1000 :1 (typical)
Color Depth	16.7M colors			
Pixel Pitch (mm)	0.255(H) x 0.255(V)	0.255(H) x 0.255(V)	0.264(H) x 0.264(V)	0.294(H) x 0.294(V)
Viewing Angle	170°(H)/170°(V)	178°(H)/178°(V)	160°(H)/160°(V)	178°(H)/178°(V)
Touch Screen (optional)	N/A	N/A	Optional resistive 5-wire (RS-232 interface)	
Input Video Signal Connector	1 x Single link DVI-D 1 x VGA 1 x Component (YPbPr) 1 x Composite (NTSC/PAL)	1 x Single link DVI-D 1 x VGA 1 x Component (YPbPr)	1 x Composite (NTSC/PAL) 1 x Component (YPbPr) 1 x S-Video 1 x VGA 1 x DVI-D	
Remote Control	N/A	N/A	Auto-dimming & IR remote control function	
Speakers	N/A	N/A	2 x 1~3W AMP	
OSD function	6 x buttons (On/off, Auto, Menu, +, -, Select)	6 x buttons (On/off, Auto, Menu, +, -, Select)	7 x buttons (On/off, Auto, Left, Up, Down, Right, Menu)	
LED function	1 x LED for Power on/off			
Power In	DC 12V in			
Power adapter	Medical Grade, AC 110V~240V to DC 12V			
IP level	N/A		IP 65 on front panel	
Physical dimensions (mm) (W x H x D)	With stand: 520 x 380 x 274 (portrait)		Without stand: 428 x 350 x 65	Without stand: 469.94 x 382.46 x 67
Adjustable height range (with stand)	Portrait: 520mm ~ 590 mm Landscape: 465mm ~ 535 mm		N/A	
Operation Temperature	10°C ~ 35°C		0°C ~ 40°C	
Storage Temperature	0°C ~ 45°C		-20°C ~ 60°C	
Safety & EMI	UL60601-1 , EN60601-1 , CE(EN60601-1-2) , FCC Class B			
Preset Gamma	DICOM	Gamma 2.2		
DICOM	Meet DICOM standard			
Packing List	1 x Power cord 1 x Power adapter 1 x User manual & Diver CD 1 x DVI cable (Single-Link) 1 x VGA cable (DB-15 to DB-15) 1 x VGA cable (DB-15 to BNC) 1 x Component cable (Mini-Din. to BNC) 1 x Monitor stand	1 x Power cord 1 x Power adapter 1 x User manual & Diver CD 1 x DVI cable (Single-Link) 1 x VGA cable (DB-15 to DB-15) 1 x VGA cable (DB-15 to BNC) 1 x Component cable (Mini-Din to BNC) 1 x Monitor stand	1 x Power cord 1 x Power adapter 1 x User manual & Diver CD 1 x Remote control 1 x Screw set 1 x DVI cable (Single-Link) 1 x VGA cable (DB-15 to DB-15) 1 x VGA cable (DB-15 to BNC) 1 x Component cable (Mini Din to BNC) 1 x Component cable (Mini Din to RCA) 1 x Touch panel RS-232 cable /Touch pen Driver CD (WT-R model only)	

1 IEIMobile Solutions
2 Automation Panel Solutions
3 PACSmate Medical Solutions
4 Optional Peripherals

Ordering Information

Ordering Part No.	Description
MMC-2201M-R10	2 mega pixel 20.1" monochrome medical monitor
MMC-2201C	2 mega pixel 20.1" color medical monitor
MMC-1190C	1.3 mega pixel 19" color medical monitor
MMC-1190C/WT-R	1.3 mega pixel 19" color medical monitor with touch screen RS-232 interface

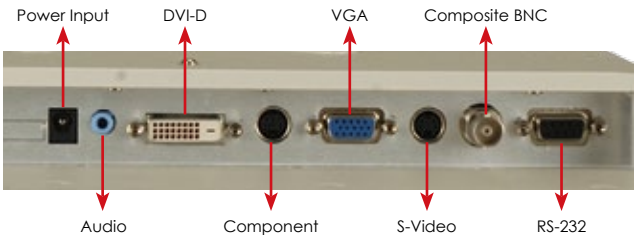
Ordering Part No.	Description
POCM-1170C	1.3 mega pixel 17" color medical monitor
POCM-1170C/T-R	1.3 mega pixel 17" color medical monitor with touch screen RS-232 interface

MMC-1170C/1190C

1.3MP Versatile Clinical Review Color Display

- 17" & 19" color TFT LCD monitor
- Multiple video inputs for connection with various medical devices
- Auto-dimming function for optimized viewing conditions
- Remote control for easy monitor set up
- Picture-in-Picture display function
- Smart software OSD control utility
- Easy OSD keypad control
- Optional touch screen
- IP 65 waterproof and dustproof front bezel

*** Stand is an optional item**



• Component Extend Cable • Component Cable (Component to RCA) • VGA Cable (VGA to BNC) • Component Cable (Component to BNC)

Perfect Image Viewing Terminal

• Multiple Color Temperature Settings

A wide range of color temperatures are included in the MMC-1170C and MMC-1190C, including 3600K/4600K/5600K/6500K/7500K. The easy color temperature adjustment ensure the best display quality when viewing images from different modalities.

• Picture-in-Picture Function

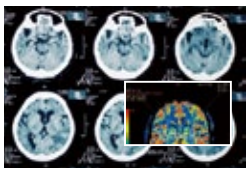
PIP function enables a second images viewed in a small on-screen window. The Picture-outside-picture can be implemented for image comparison.

Flexible PIP settings:

» Upper left/right and lower left/right of window's position

» Small, medium and large on-screen windows setting

» Independent brightness and contrast control for PIP windows



• Auto-Dimming Function

The built-in ambient light sensor ensures the monitors perform optimally in all light conditions. The auto-dimming function extends backlight life time and provides comfortable viewing environment.

• Your Best Display Terminal for Various Modalities

Multiple video interfaces on the versatile MMC-1170C and MMC-1190C enable these systems to be interfaced with VGA, DVI, S-Video, Component and BNC displays. Adjustable color temperature settings make the MMC-1170C and the MMC-1190C perfect for endoscope applications. These systems are also easily interfaced to other advanced medical applications such as ultrasound devices and the 1000:1 high-contrast ratio makes them perfect for viewing C-arm images.

Flexible Control Advantage

• Smart OSD Utility

The smartOSD is an intelligent On-Screen Display control.The user-friendly OSD interface under Windows environment enables users to adjust the monitor easily from a remote system.

The smartOSD allows some functions as below:

- Power on/off
- Color temperature selection
- Monitor information
- Luminance selection
- Gamma selection

• Full-Function Remote Control Utility

Hot keys on the remote control include PIP zone, input source selection, auto-dimming, brightness and contrast ratio. Remote control ensures easy configuration of the MMC-1170C/1190C.

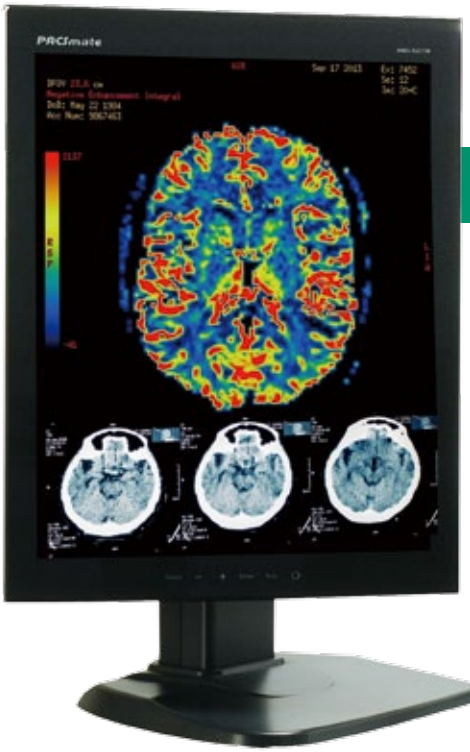
Best Product Reliability

• IP 65 Compliance

The IP 65 front panel is waterproof and dustproof, ensuring the best product reliability.

• Paint-coating-free front bezel

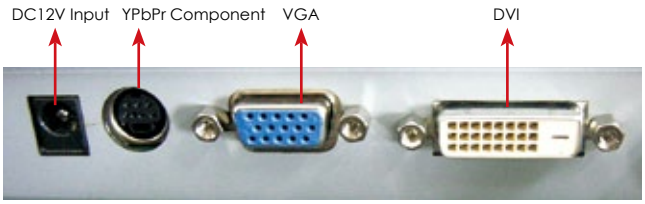
The front bezel has no paint coating, enabling easy cleaning by disinfectant without harming the front bezel.



2MP MMC-2201C

20.1", 2MP Cost-Effective Color Medical Display

- 20.1" color TFT LCD
- 2MP-1600(H) x 1200(V)
- Luminance: 300 cd/m²
- Smart software OSD control utility
- Portrait/ Landscape orientation
- Selectable Gamma 2.2 and DICOM calibration



- **Perfect for Clinic Image Viewing Applications**

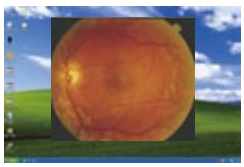
The MMC-2201C is a cost-effective medical display, perfect for image review applications. The DVI, VGA and component interfaces make it perfect for connection with various medical devices. Compared with commercial displays, the easy portrait and landscape rotation enables a better viewing experience for different medical images. The flexible Gamma settings brings the optimal display quality when connected with different medical devices. MMC-2201C is the best image review terminal for CT, MRI and CR devices.

Image Viewing Advantage

- **User Selectable Gamma Settings**

PACSmate's color medical display can be adjusted with Gamma 2.2 and DICOM preset under 6500K color temperature for different brightness conditions to achieve the optimal display quality for images from different modalities.

DICOM


Gamma 2.2

- **Ergonomic Design**

Narrow bezels enable easy side-by-side viewing for diagnostic applications.

User-Friendly Control Advantage

- **Smart OSD for Easy Monitor Control**

The smartOSD is an intelligent and easy to use proprietary On-Screen-Display (OSD) software especially designed for the PACSmate display monitors. It delivers excellent performance and flexibility over hardware OSD solutions in the monitor unit. Users can adjust the monitor with the smartOSD in a Windows® environment from a remote system instead of adjustment from front panel.

The smartOSD allows some functions as below :

- Power on/off
- Luminance/ Contrast/ Sharpness setting
- Color temperature selection

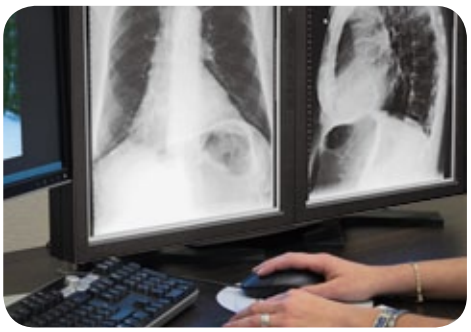
- **Front Glass Enclosure**

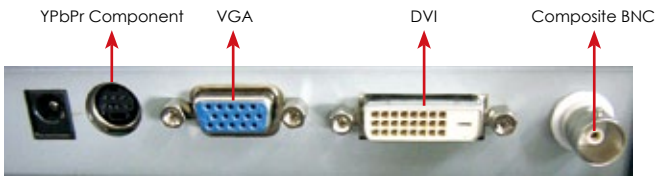
The front panel is enclosed by anti-reflection glass, allowing easy cleaning by the disinfectant without harming the LCD panel

2MP MMC-2201M

20.1" Economical Monochrome Medical Display

- 20.1" monochrome TFT LCD
- 2MP-1600(H) x 1200(V)
- Max. Luminance: 700 cd/m² (typical)
- Smart software OSD control utility
- DICOM calibration
- Portrait/ Landscape orientation





• Perfect for PACS Image Viewing Workstation

The MMC-2201M is a cost-effective medical display, perfectly used as a PACS image viewing workstation. The high contrast ratio enables more precise grayscale image from the monitor. The DVI, VGA and composite BNC interfaces make it flexibly connect with diverse medical devices as the reviewing terminal. Compared with commercial displays, the easy portrait and landscape rotation enables a better viewing experience for different medical images. The medical certifications ensure the best reliability when being applied to medical environment.

Image Viewing Advantage

• Multiple Video Input Interfaces

The multiple input interfaces on the MMC-2201M enable connection to various medical devices. The multiple inputs include:

» Single-Link DVI-D (digital)
» Component YPbPr BNC connector
» DB-15 VGA
» VGA to BNC
» Composite BNC (NTSC/PAL)

• Ergonomic Design

Narrow bezels enable easy side-by-side viewing for diagnostic applications.

User-Friendly Control Advantage

• Smart OSD for Easy Monitor Control

The smartOSD is an intelligent and easy to use proprietary On-Screen-Display (OSD) software especially designed for the PACSmate display monitors. It delivers excellent performance and flexibility over hardware OSD solutions in the monitor unit. Users can adjust the monitor with the smartOSD in a Windows® environment from a remote system instead of adjustment from front panel.

The smartOSD allows some functions as below :

- Power on/off
- Luminance/ Contrast setting
- Picture-in-picture setting
- Monitor information

• Optional Front Glass Enclosure

The front panel is enclosed by anti-reflection glass, allowing easy cleaning by the disinfectant without harming the LCD panel.

A Total Solution of E-Nursing Cart

E-Nursing Cart

The E-Nursing Cart is the best working partner for nurses. The E-Nursing Cart help nurses process medical orders effectively, reduce transcription errors and even facilitate the speed of daily nursing workflow to further improve the service quality in hospitals. The highly integrated system greatly reduces the burden of nursing operations, optimizes patient care processes and even improves hospital management capabilities and efficiency.

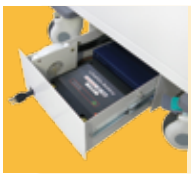
Five distinguishing features

All-in-one
PACSmate provides a total solution of the complete mobile E-Nursing Cart system which includes various choices of medications carts, medical panel PCs and medical battery systems.

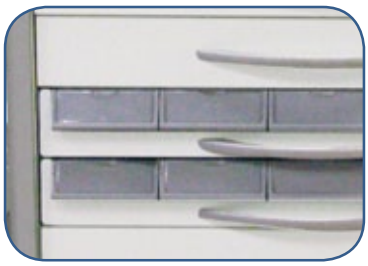
Customize
PACSmate E-Nursing Cart incorporates medical panel PC, medical battery systems and various accessories, such as needle box, waste bins, and different kinds of shelves, ensuring the maximum flexibility for different configurations.

Various patterns & colors available
Ten different colors for your choices and several patterns can be chosen in your favor to decorate the nursing cart.

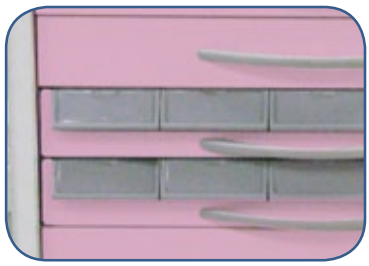
Scratch resistance & durability
The special coating provides resistance to scratching and the metal casing construction ensures the strength of the cart.



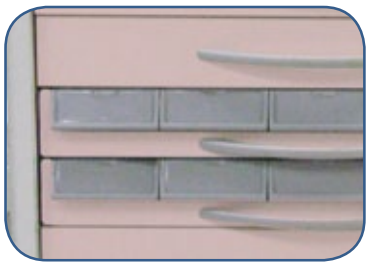
Easy to maintain
Independent battery drawer design saves space and makes it easy to maintain the battery system.



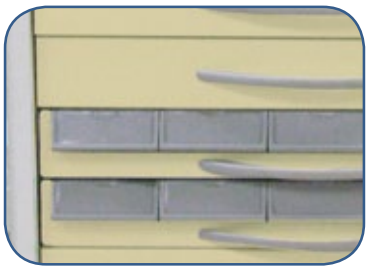
White



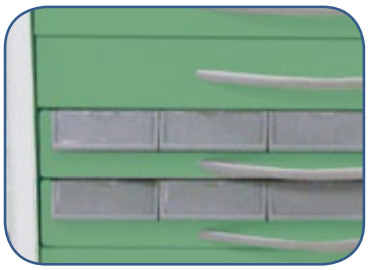
Blush Pink



Bright Orange

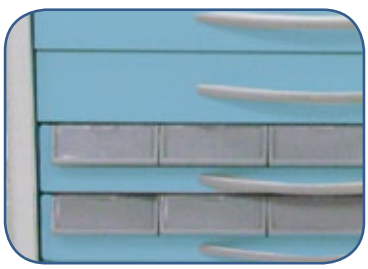


Cream

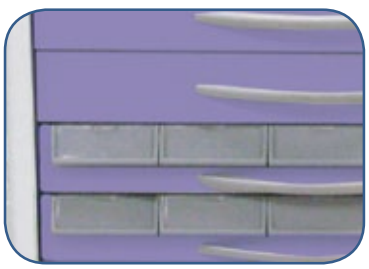


Fresh Green

Children's Nursing Edition



Light Blue



Lavender

pCART-N1 pCART-N2 pCART-N3

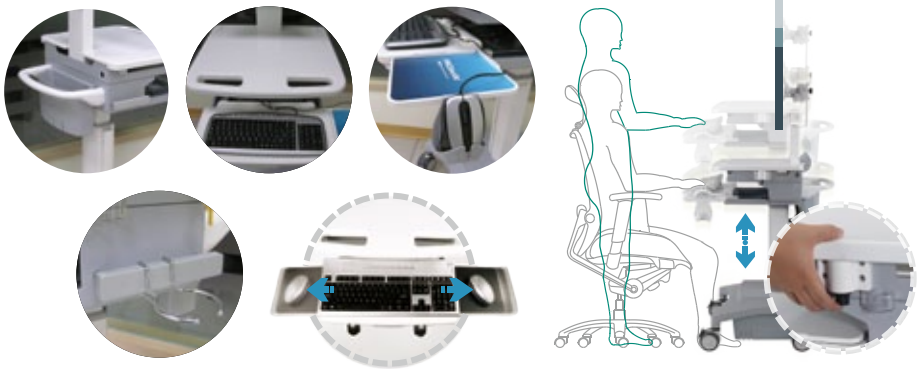
Item	p-CART N1	p-CART N2	p-CART N3
Body Size	L: 54cm(±1cm) W:68cm(±1cm) H:101cm(±1cm)		L: 51cm(±1cm) W:46cm(±1cm) H:94cm(±1cm)
Structure	Aluminum-alloy. Each metal sheet is connected by electro-welding instead of screw.		
Coating	Powder coating (10 different colors for your choice and garden series stickers for you to decorate your own medical cart.) Powder coating provides smooth surface which is easy to clean and sterilize. Caustic agents are as follow. 1. Ethyl alcohol 2. Sodium hypochlorite 3. Isopropanol 4. Formalin 5. Glutaraldehyde 6. Benzalkonium chloride		
Working Table	1. ABS surface with seamless design: dirt won't stock and easy to clean and sterilize. 2. Concave desktop design: avoid objects falling down 3. Battery status indicator : easy to identify the battery capacity 4. Smart card reader: easy to get patient's info 5. L:45cm W:59cm H:98-100cm		
Side Table	1. Top ABS surface and pull-out area facilitates task processing and regular cleaning. 2. Loading weight: up to 8 kg		
Computer Arm	1.Three-step arm / maximum loading of 12 kg 2. Ergonomic design: Easy to adjust direction/ height/ angle of computer		
Drawer	1. Metal material: solid and bump-resistant; 2. Powder coating: easy to clean and anti-corrosion 3. Stainless steel slippery track: no noise while pull out the drawer, the drawer can be taken out for cleaning. 3. Customized drawer configuration: three sizes for your choice, 3", 6" and 9". (total height of the drawer is 27 inches) 4. Drawer lock: all drawers can be locked to ensure the safety of the items in the drawer; or lock all but not keyboard drawer for operating convenience.		1. Metal material: solid and bump-resistant; 2. Powder coating: easy to clean and anti-corrosion 3. Stainless steel slippery track: no noise while pull out the drawer, the drawer can be taken out for cleaning. 3. Customized drawer configuration: three sizes for your choice, 3/6/9 inch. (total height of the drawer is 27 ") 4. Drawer lock: all drawers can be locked to ensure the safety of contains in the drawer; or lock all but not keyboard drawer for operating convenience.
Drawer Configuration	First Layer: 1. 3" keyboard drawer: storage space can fit different sizes of keyboard 2. USB hub: facilitate different requirements and expansion functions 3. Power switch: switch off to extend battery life Second Layer: 3" drawer Third & Fourth Layer 3" med-box drawer which can accommodate 5-7 med boxes (L23/W11/H7.5cm). Layout of the med box can be customized. Fifth Layer: 6" drawer Sixth Layer: 9" drawer	First Layer: 1. 3" keyboard drawer: storage space can fit different sizes of keyboard 2. USB hub: facilitate different requirements and expansion functions 3. Power switch: switch off to extend battery life Second Layer: 3" drawer Third & Fourth Layer Front and back has 3" med-box drawers which can accommodate 5" med boxes each (L23/W11/H7.5cm). Layout of the med box can be customized. Fifth Layer: 6" drawer Sixth Layer: 9" drawer	First Layer: 1. 3" keyboard drawer: storage space can fit different sizes of keyboard 2. USB hub: facilitate different requirements and expansion functions 3. Power switch: switch off to extend battery life Second & Third Layer: 3" drawer (can separate on your own) Fourth & Fifth Layer: 6" & 9" drawer Sixth Layer: battery drawer
Choices of Accessory	* Yellow needle box (3l*1) and box holder. * Metal binocular trash can (10l*2) and holder * Bottle stand (36*10*8cm/each*3). * Multi-purpose rack(33*13*18cm).		* Yellow needle box (3l*1) and box holder. * Metal binocular trash can (10l*2) and holder * Multi-purpose rack(33*13*18cm).
Options of Battery modules	MBM-P940+Pb / MBM-P280 / MBM-L180 / MBM-L220 / MBM- L450		MBM-P280 / MBM-L180 / MBM-L220
Wheels	1. Four 5-inch bearing silencing dust-proof wheels 2. Each wheel has up to 100 kg loading		1. Four 4" bearing silencing dust-proof wheels 2. Each wheel has up to 100 kg loading

pCART-D1

E-Medical Cart

Feature

- Moveable mouse platform to accommodate both right- and left-handed users.
- Ergonomic design: gas spring mechanism gives users the best viewing position.
- Front- and rear-countered handle: makes it easy to move
- High-performance casters

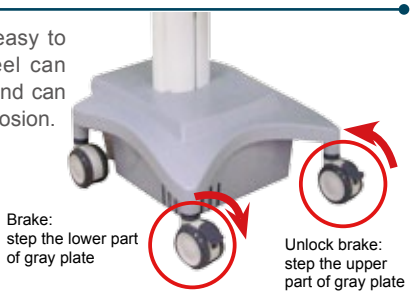


Flexible and solid computer arm

1. The arm is VESA standard (75 mm and100mm) compliant and supports work load up to 8–15 kg without sacrificing any space.
2. It is easy to adjust screen's height, direction and angle. The user can adjust to an ideal position for viewing.

Wheel with brake plates

Two separate footplates: easy to brake the cart. Each wheel can load up to 100 kg weight and can resist acid alkaline and corrosion.



Easy to take down computer

Remove the screws and bracket, and pull the panel PC upward (see the picture on the right)

Notice: Lock the screw while install the computer

Smooth movement

Four 4-inch bearing silencing dust-proof wheels can lower the coefficient of ball friction and lead to smooth movement

1 IEIMobile Solutions
2 Automation Panel Solutions
3 PACSmate Medical Solutions
4 Optional Peripherals

Specifications

Item	Content
Body Size	L: 52cm(±1cm) W:54cm(±1cm) H:150cm(±1cm)
Weight	47 kg
Structure	Aluminum-alloy. Each metal sheet is connected by electro-welding instead of screws.
Keyboard & Mouse tray	Mouse plate: right or left pull ,
Computer Stand	1. VESA 75/100mm, loading up to 5-10 kg 2. Easy to adjust screen's height/ direction/ viewing angle
Accessory	1. Handrail 2. Document basket 3. Barcode reader holder
Battery Module	MBM-P280 / MBM-L180 / MBM-L220 / MBM- L450
Wheels	1.Four 4" bearing silencing dust-proof wheels 2.Two wheels have brake function

Ordering Information

Part No.	Description
PCART-D1-WL1-R1	Medical computer cart in white with VESA arm, height adjustable desktop (90 cm-120 cm), keyboard tray, mouse holder, 4" medical grade casters, MBM-L180 power module,
PCART-D1-W00-R1	Medical computer cart in white with VESA arm, height adjustable desktop (90 cm-120 cm), keyboard tray, mouse holder, 4" medical grade casters, battery slot (w/o battery module)

Accessory

Part No.	Description
PCA-HCA-001-R1	3-inch high drawer with lock key, 27 cm x 44 cm, for PCART-D1.
PCA-HCA-002-R1	Desktop PC holder with belt, 25 cm x 15 cm x 60 cm, for PCART-D1.

PCA-HCA-001-R1

PCA-HCA-002-R1

MBM-L450/ MBM-L220

PACSmate Battery Solution

MBM-L450

MBM-L220

New

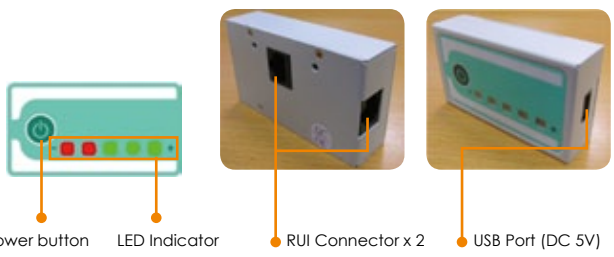
Features

- Long battery cycle life
- High Capacity
- Multiple Safety protections
- LED status indicator
- Assurance of medical safety standards
- Three different outputs
- Battery Manager Software Communication

UL60601-1 FCC Class B CE (EN 60601-1-2)

Remote User Interface(RUI) function

The MBM-L220/L450 are equipped with 5-stage LED battery indicators and 20% power capacity for each light.
When the battery capacity is less than 10%,the buzzer will keep sounding every 30seconds for 3 seconds till battery start charging



Advantages of LiFe Battery

	Nickel Hydride	Lead Acid	LiCo	LiFe Win!
Cell Voltage (single-cell)	1.2V	2V	3.7V	3.3V
Energy Efficiency	70%	60%	90%	95%
Power Volume Density (Wh/L)	250	150	466	280
Cycle life(times) 100% discharge	500	400	700	>2000
Typical cycle life with daily usage	1.3yrs	1.1 yrs	2 yrs	5.5 yrs
Standby life (years)	7~8	5~15	5~6	7~8
Memory Effect	Yes	No	No	No
Acceptability of high temperature	Acceptable	Good	Acceptable	Excellent
Safety (impact)	Good	Good	Very unstable	Excellent
Cost efficiency (energy: price ratio)	Good	excellent	Acceptable	Acceptable
Yearly cost efficiency	acceptable	Good	Acceptable	Excellent

Specifications

Model Name	MBM-L220-R10	MBM-L450-R10
Battery Type	Lithium-Iron Phosphate (LiFePO4)	
Battery Life time	2000 cycle, DOD 80% (Depth of Discharge)	
Battery Capacity	220Wh	450Wh
Charge time	1.8hr, DOD 100%	2.2hr, DOD 100%
Used time	5~6hr more, used 19"Panel PC, Intel i series CPU.	11~12hr more, used 19"Panel PC, Intel i series CPU.
Output Voltage & Current	Output 1: DC 12V, Max.10A. (total 120W) Output 2: Optional 24V/20V/19V/18V, Max.5.2A @19V. (total 100W) Output 3: DC 5V (USB type), Max.2A. (total 10W)	
Input Voltage	DC 24V	
Remote User Interface (RUI) function	Battery capacity percentage 5 x LED indicator Battery power on/off button Low capacity alarm buzzer Output 3: DC 5V (USB type)	
Battery Manager Software Communication Interface	USB interface	
Certifications	Medical safety : UL 60601-1 & EN 60601-1 Medical EMC : FCC Part 18 & CE EN 60601-1-2 Lithium battery cell safety : UL 1642 & IEC 62133 Lithium battery transport standard : UN38.3	
Dimensions	225 x 210 x 81mm	225 x 210 x 106mm
Weight	4.6Kg	7.3Kg
Operation temperature	0~40°C	
Packing List	1 x Remote User Interface & cable 2.2m. 1 x DC output 1 cable 2.2m, power din 4 pin for IEI Panel PC. 1 x DC output 2 cable 2.2m, power plug ψ5.5/2.5mm. 1 x USB communication cable 2.2m.	1 x AC input power cord 1.8m.(USA type) 1 x Power adapter AC 100~240V to DC 24V.(Medical grade) 1 x Power adapter Mount Bracket. 2 x Battery module Mount Bracket.

Ordering Information

Model name	Description
MBM-L220-R10	Medical Grade Battery Module , Lithium-Iron Phosphate(LiFePO4) 220Wh, Input DC 24V, Ouput-1 DC12V, Ouput-2 optional DC24/20/19/18V, Ouput-3 DC5V
MBM-L450-R10	Medical Grade Battery Module , Lithium-Iron Phosphate(LiFePO4) 450Wh, Input DC 24V, Ouput-1 DC12V, Ouput-2 optional DC24/20/19/18V, Ouput-3 DC5V